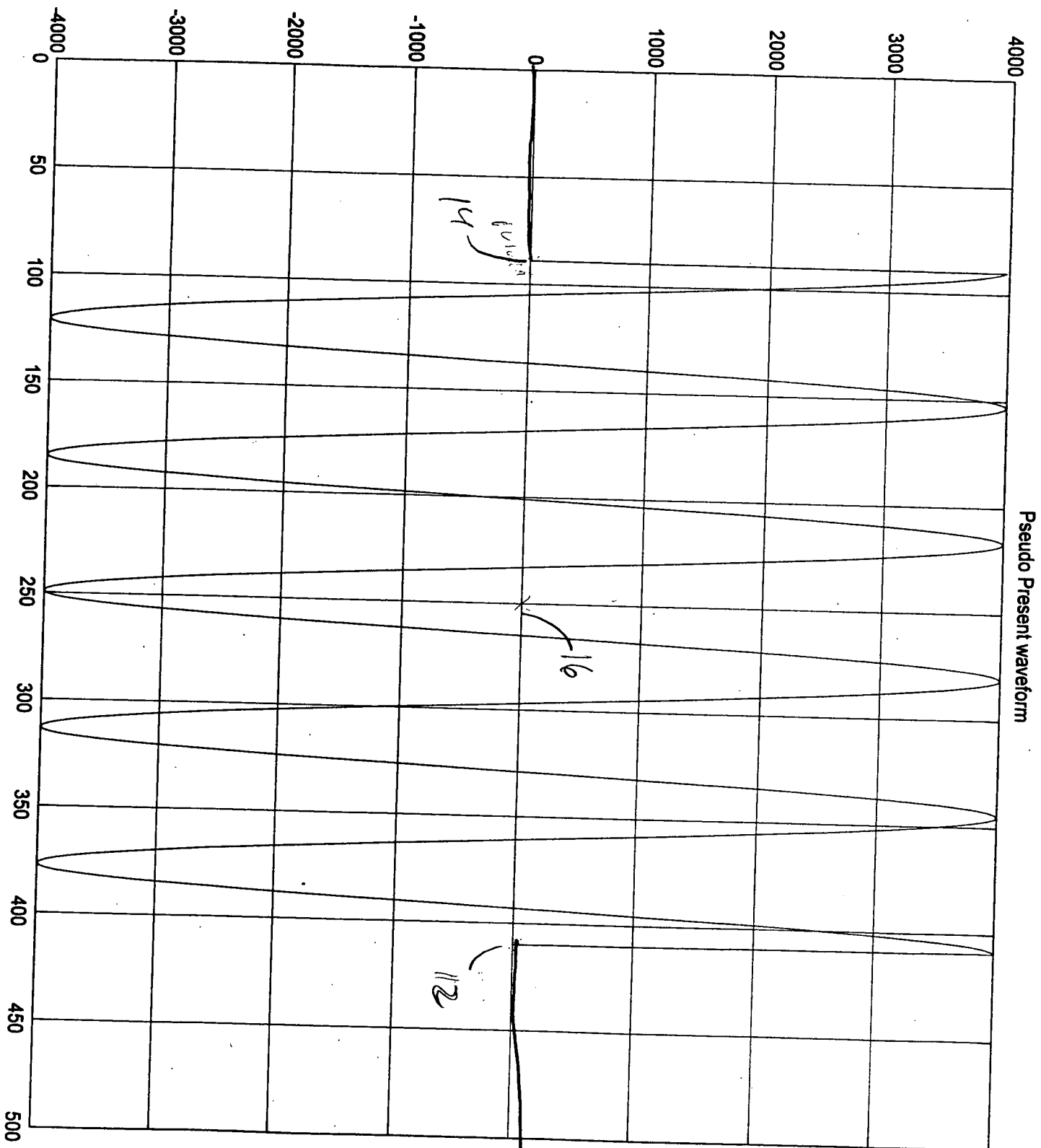


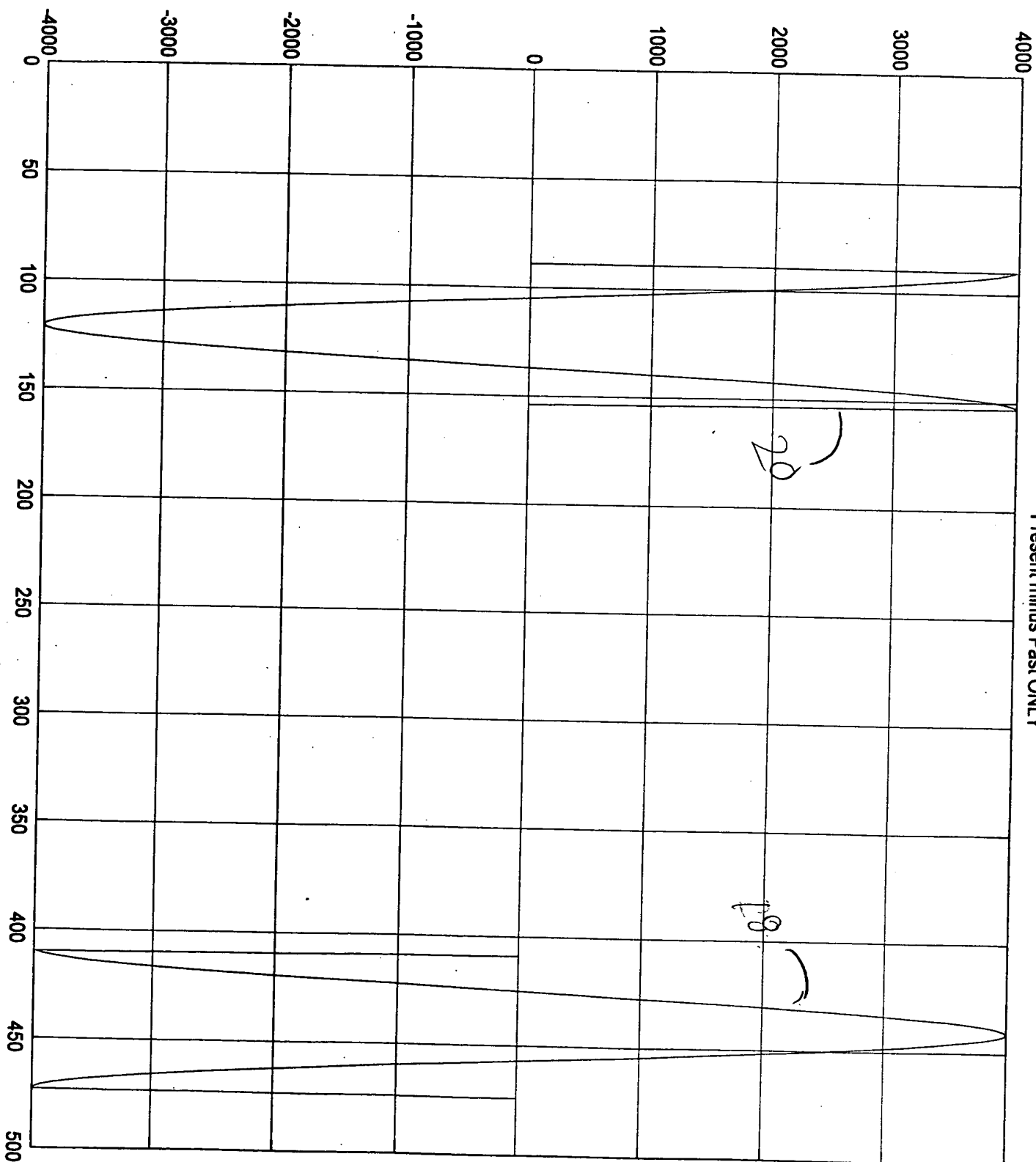
FILE 1



10 →

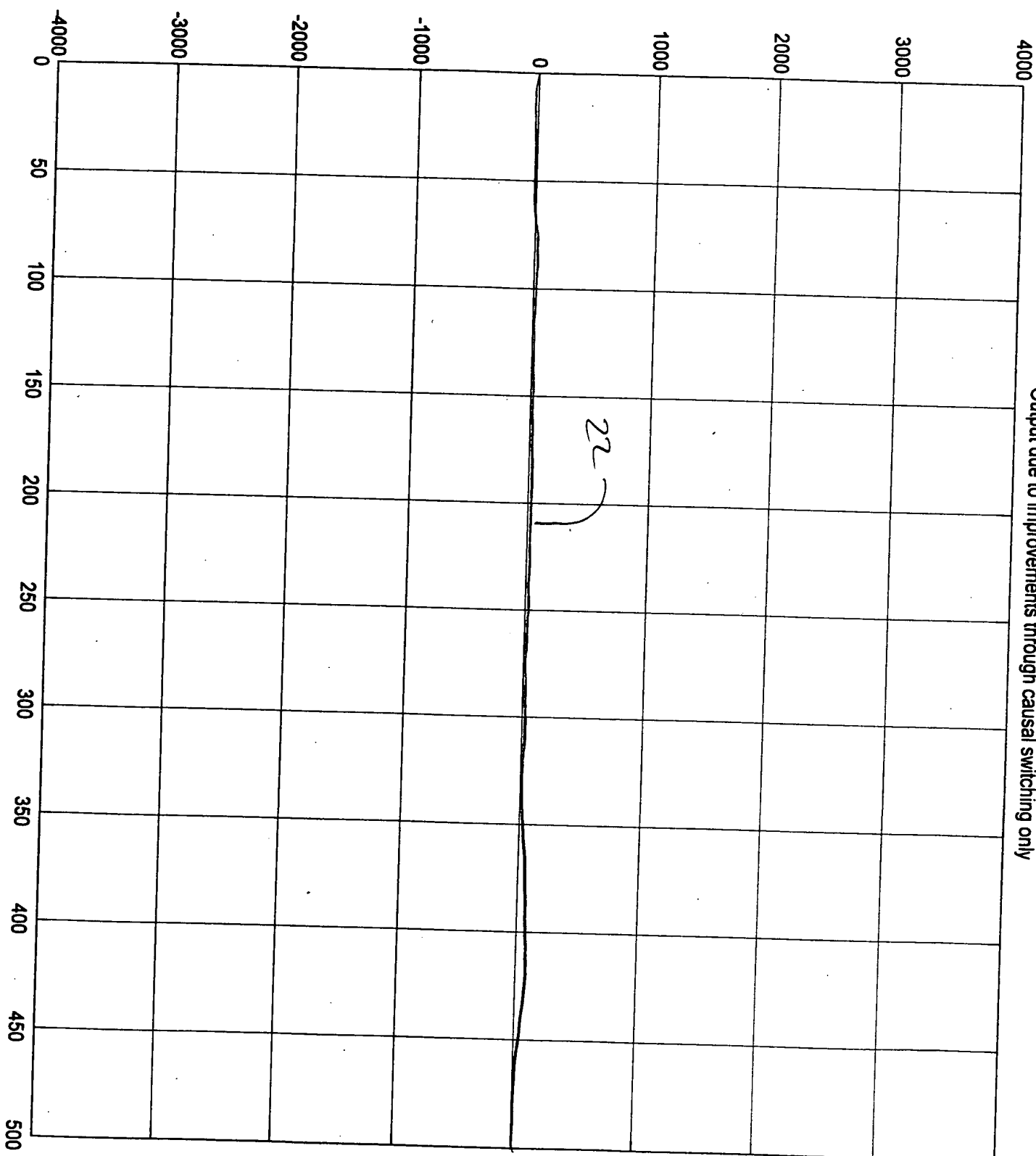
Fig. 2

Present minus Past ONLY



F/G.3

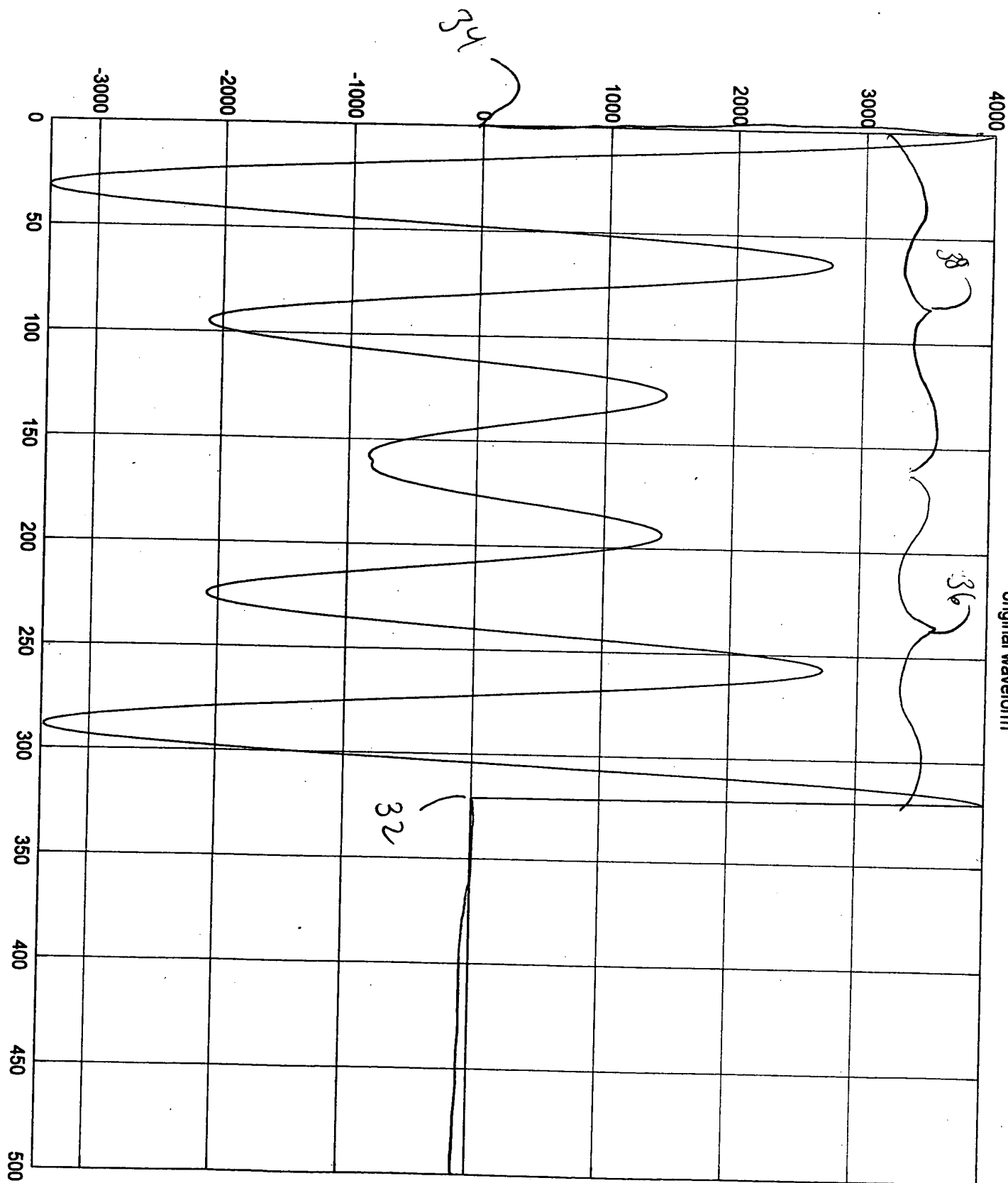
Output due to improvements through causal switching only



F16.9

original waveform

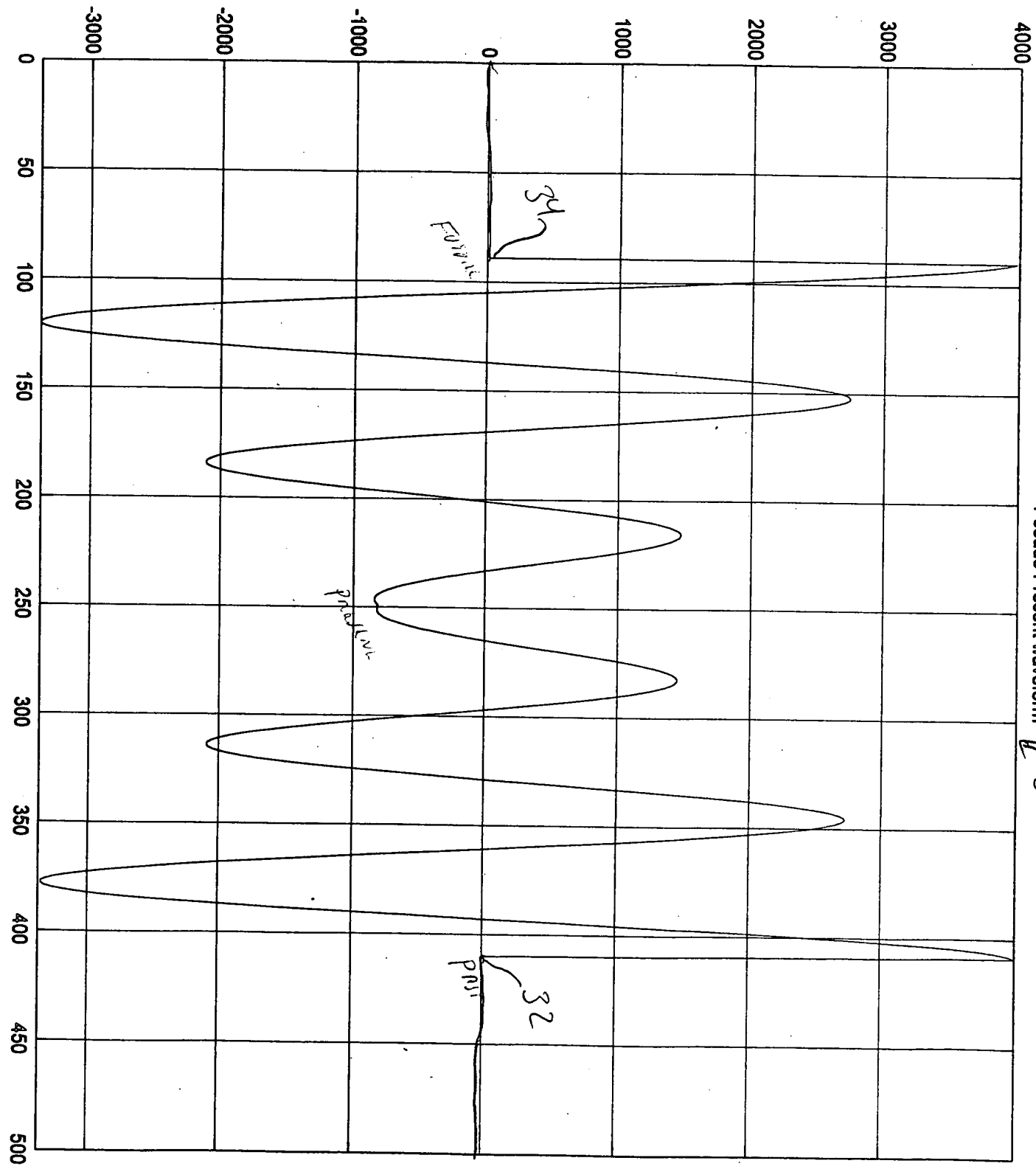
← 30



F16.5

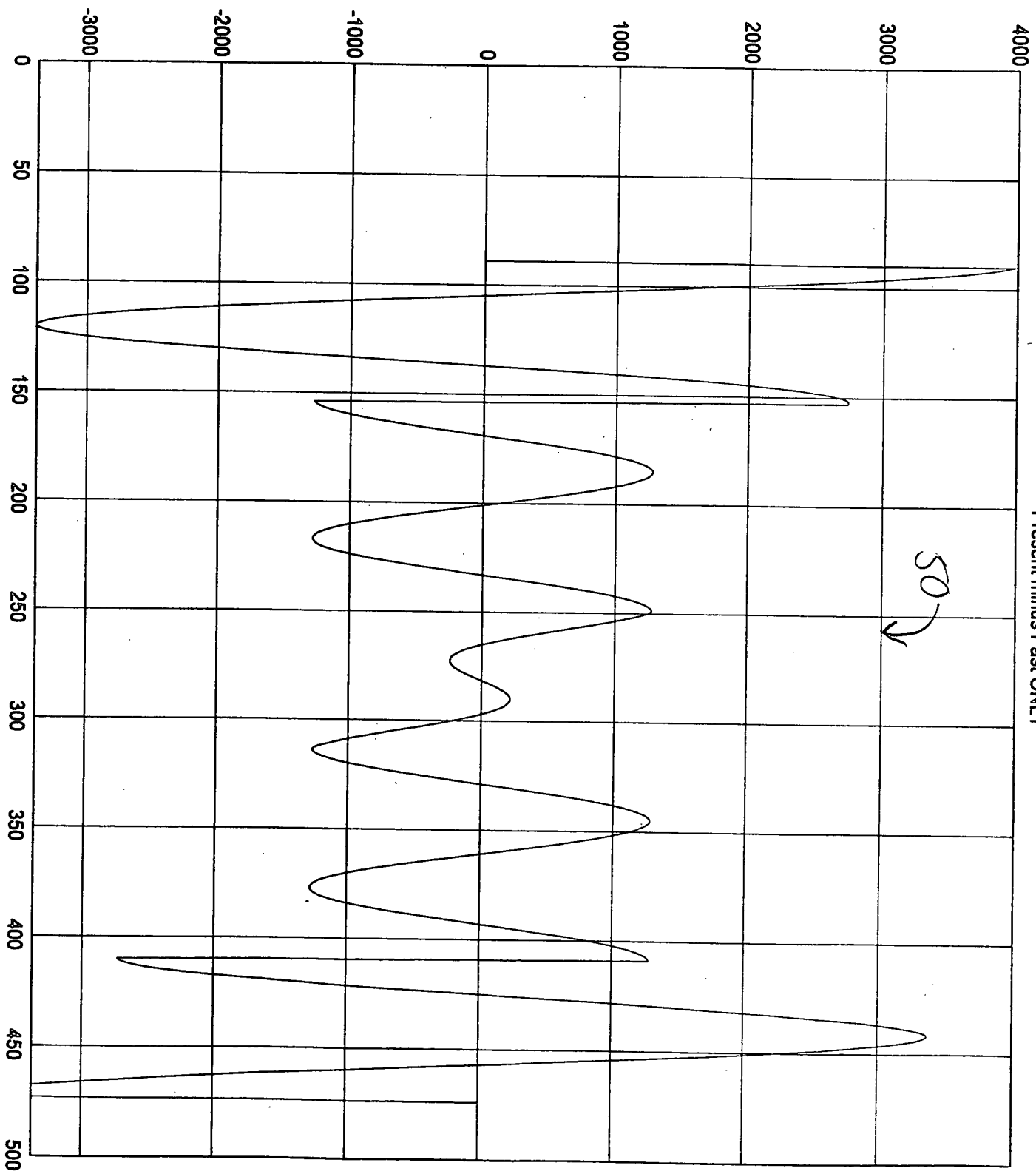
Pseudo Present waveform

30



F16.6

Present minus Past ONLY



50

F16.7

Output due to improvements through causal switching only

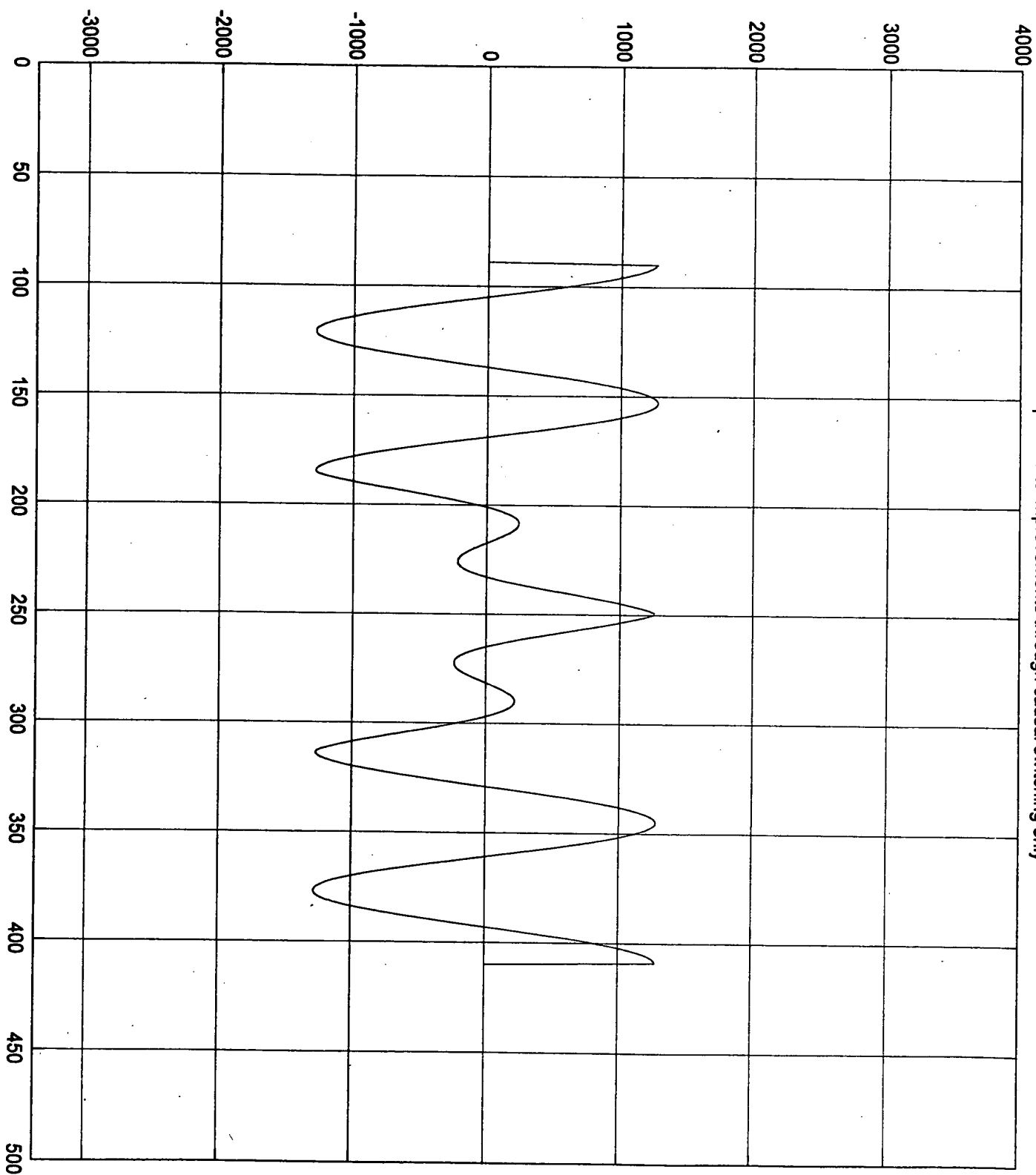
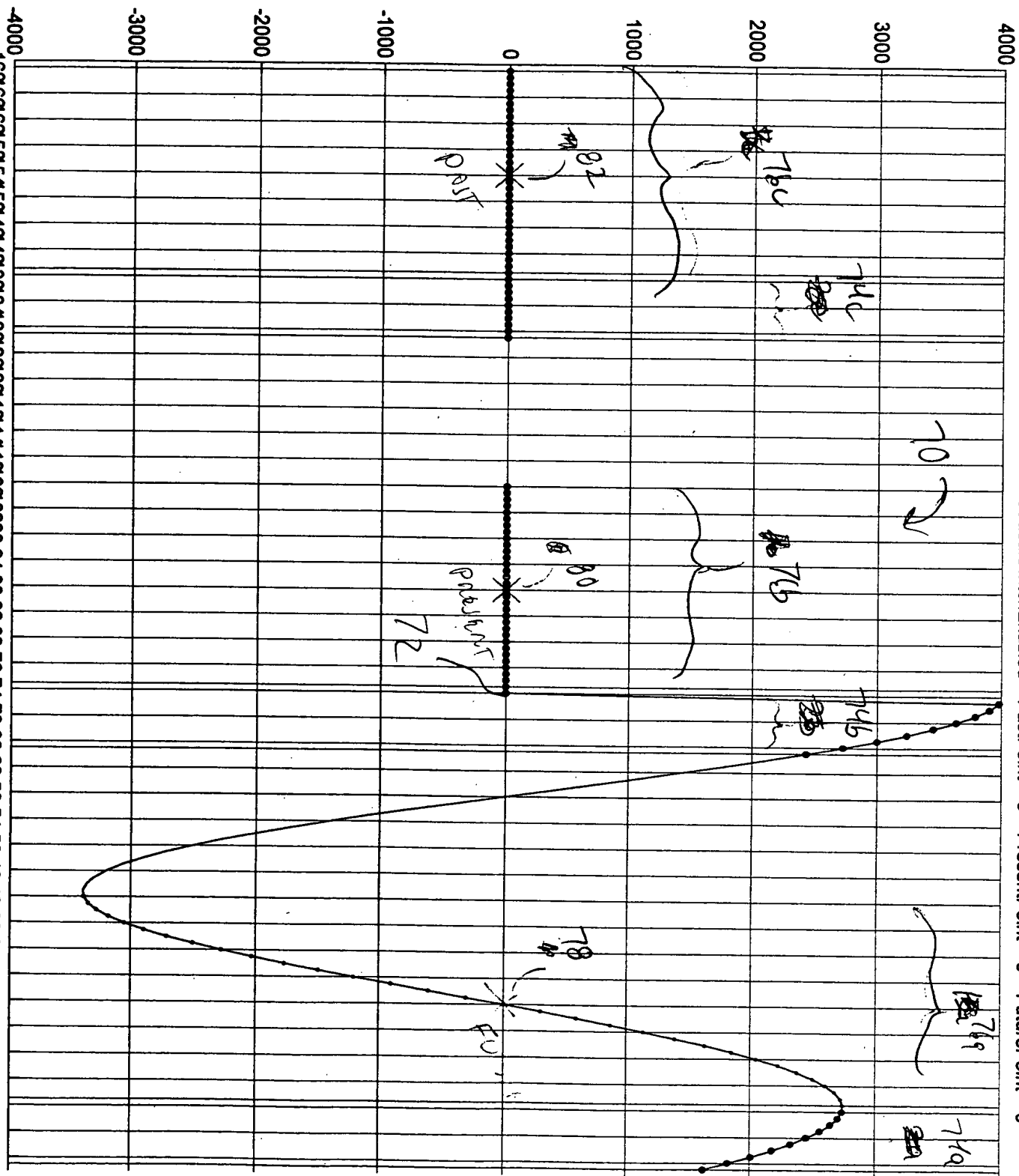


FIG. 8

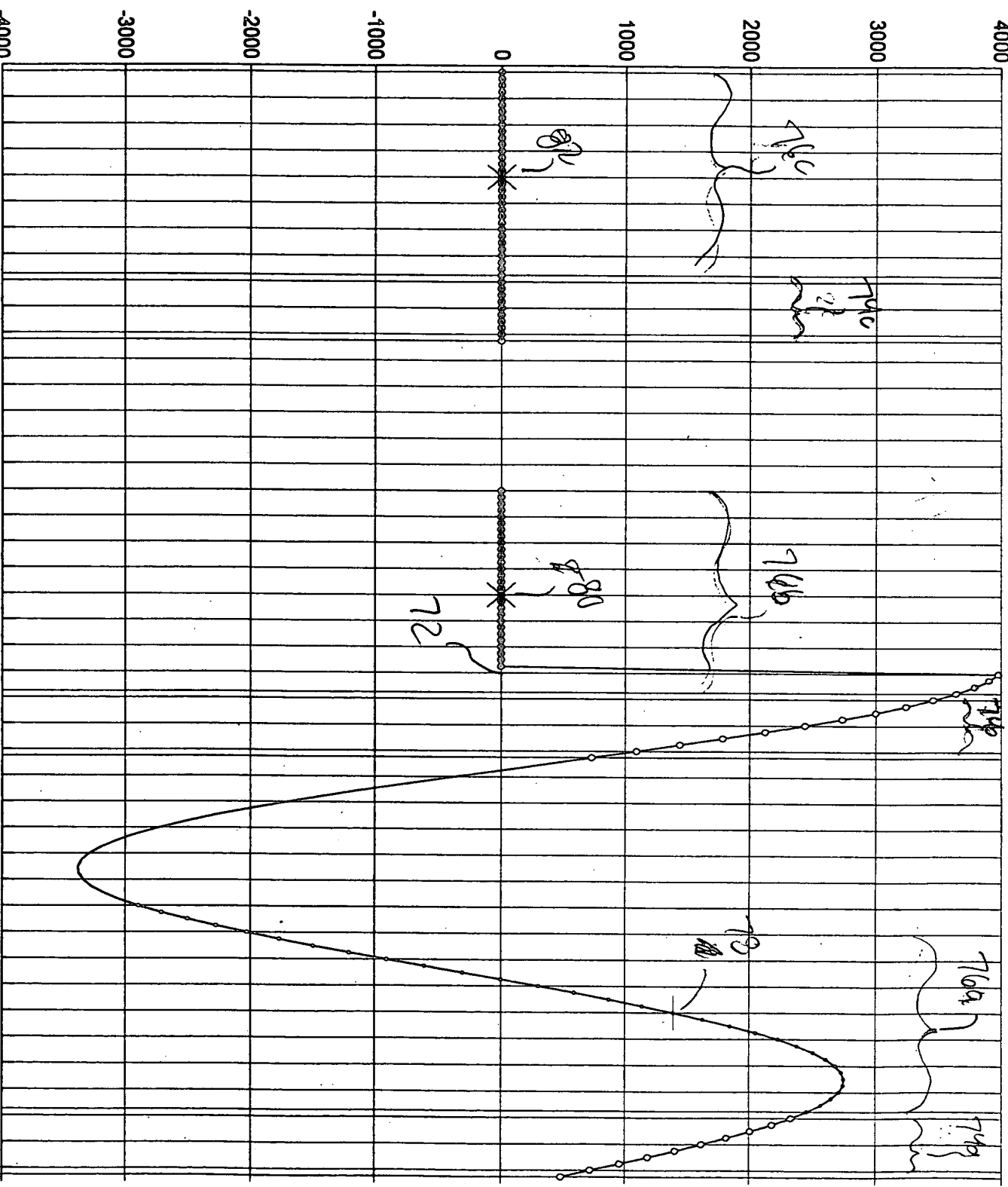
Points Processed = 73 PtCntSwitch = 17 CausaSwitchEnabled PastPoint = 0 PresentPoint = 0 FuturePoint = 0



169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

FIG. 9

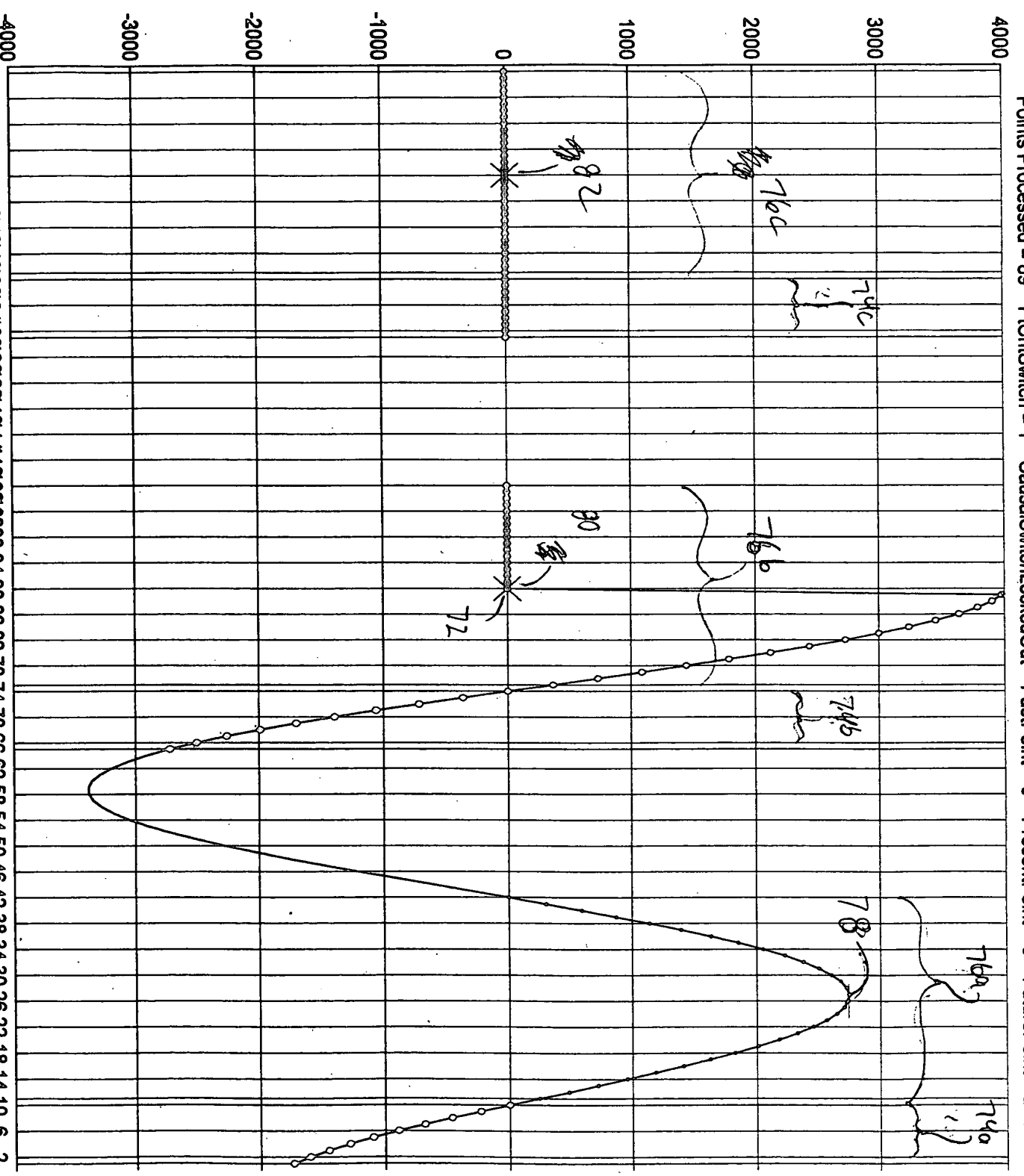
Points Processed = 78 PtcnSwitch = 12 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 1395



DPM adjusted data = 0 DPMFactor = 1 DPM Status = Num (Prsn) frozen from c switch DPM Inhibt Low Amp DPM Num = 0 DPM Den = 0

F1G.10

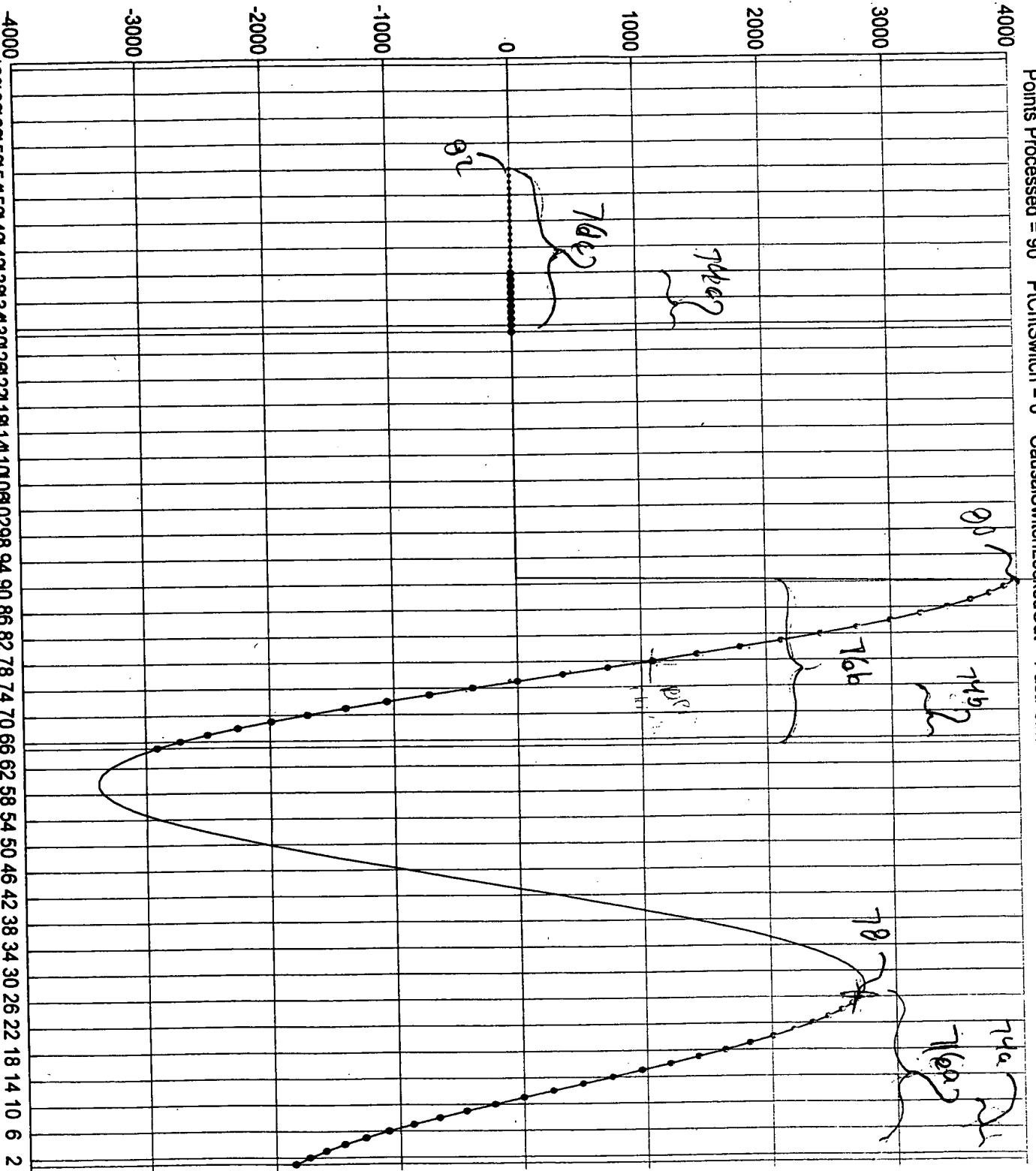
Points Processed = 89 P/CntSwitch = 1 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 2740



169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
 DPM adjusted data = 0 DPMFactor = 1 DPM Status = Num (Prsn) frozen from c switch DPM Inhib Low Amp DPM Num = 0 DPM Den = 0

F16.11

Points Processed = 90 PkCntSwitch = 0 CausalsSwitchLockedOut PastPoint = 0 PresentPoint = 3980 FuturePoint = 2706



169 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 08 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 4089 DPM Factor = 1.5113 DPM Status = DPM span & center adjusting DPM Num = 55309 DPM Den = 36598

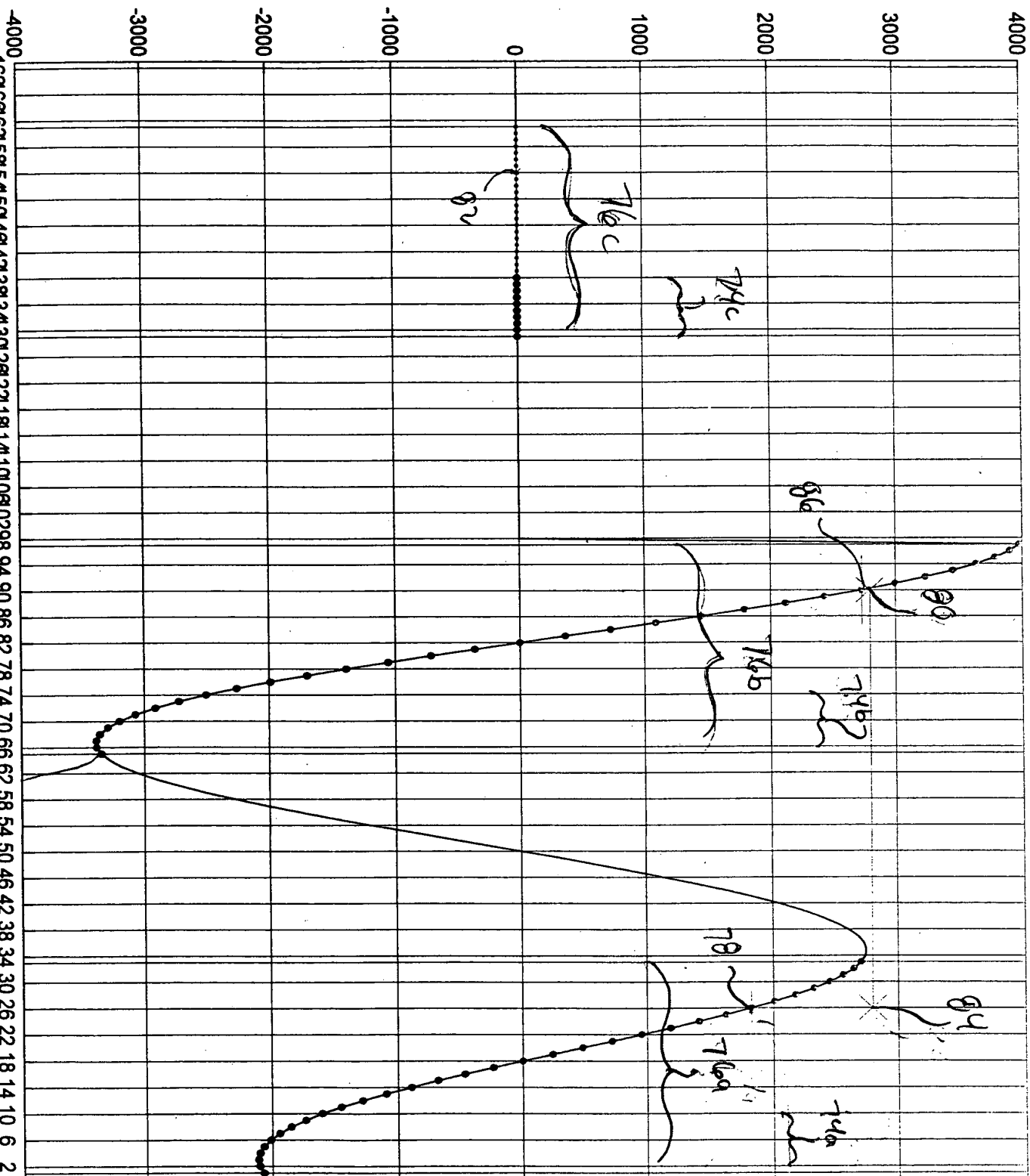
F16.12



F16 13

rule of PDs in patients with PDs

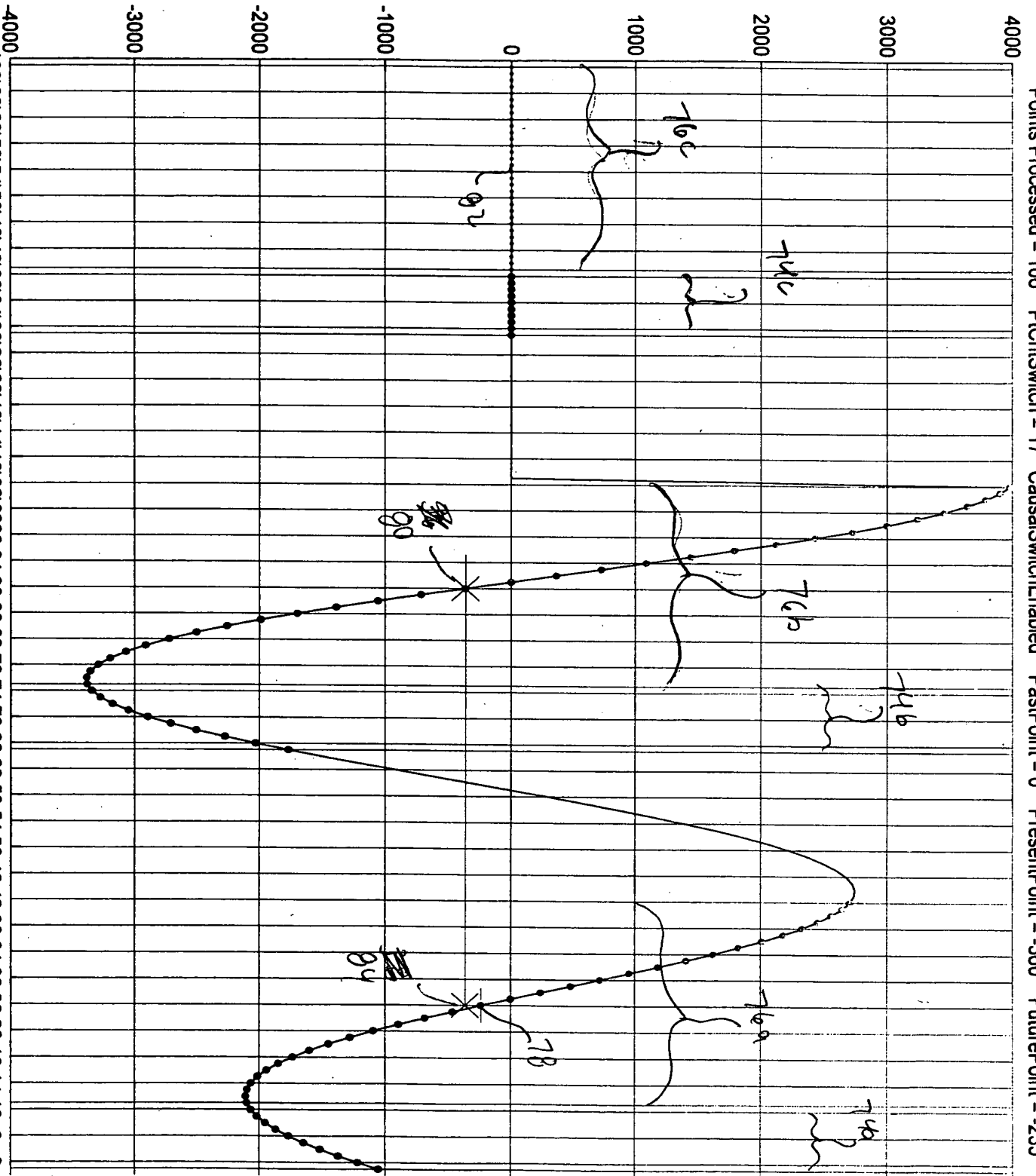
Points Processed = 97 PtCntSwitch = -7 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 2729 FuturePoint = 1824



169 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 08 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
 DPM adjusted data = 2795 DPMFactor = 1.5326 DPM Status = DPM span & center adjusting DPM Num = 74982 DPM Den = 48925

Fig. 14

Points Processed = 106 P/CntSwitch = 17 CausalswitchEnabled PastPoint = 0 PresentPoint = -360 FuturePoint = -235

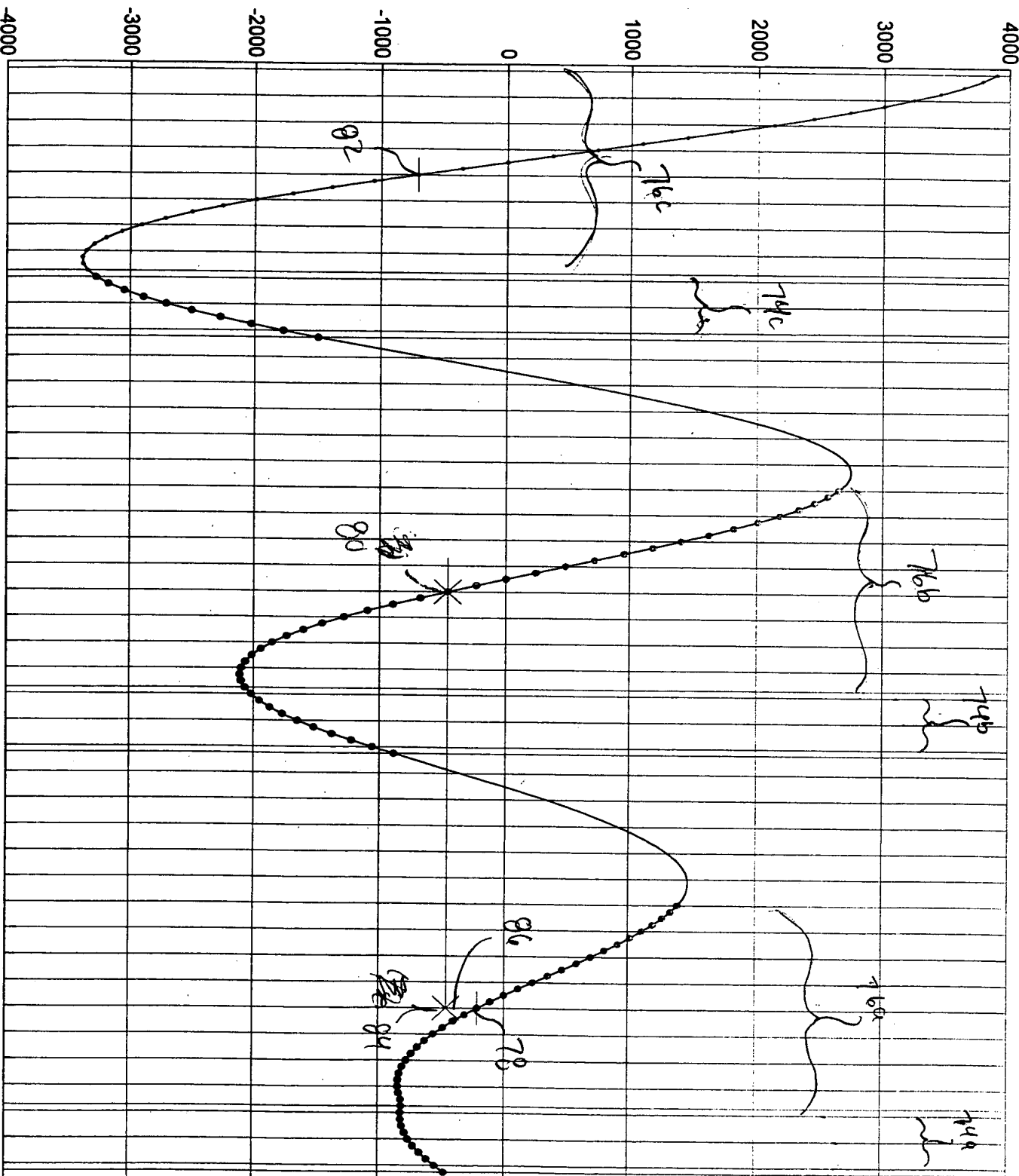


169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2

DPM adjusted data = -361 DPMFactor = 1.5326 DPM Status = Normal DPM Num = 74982 DPM Den = 48925

FIG. 15

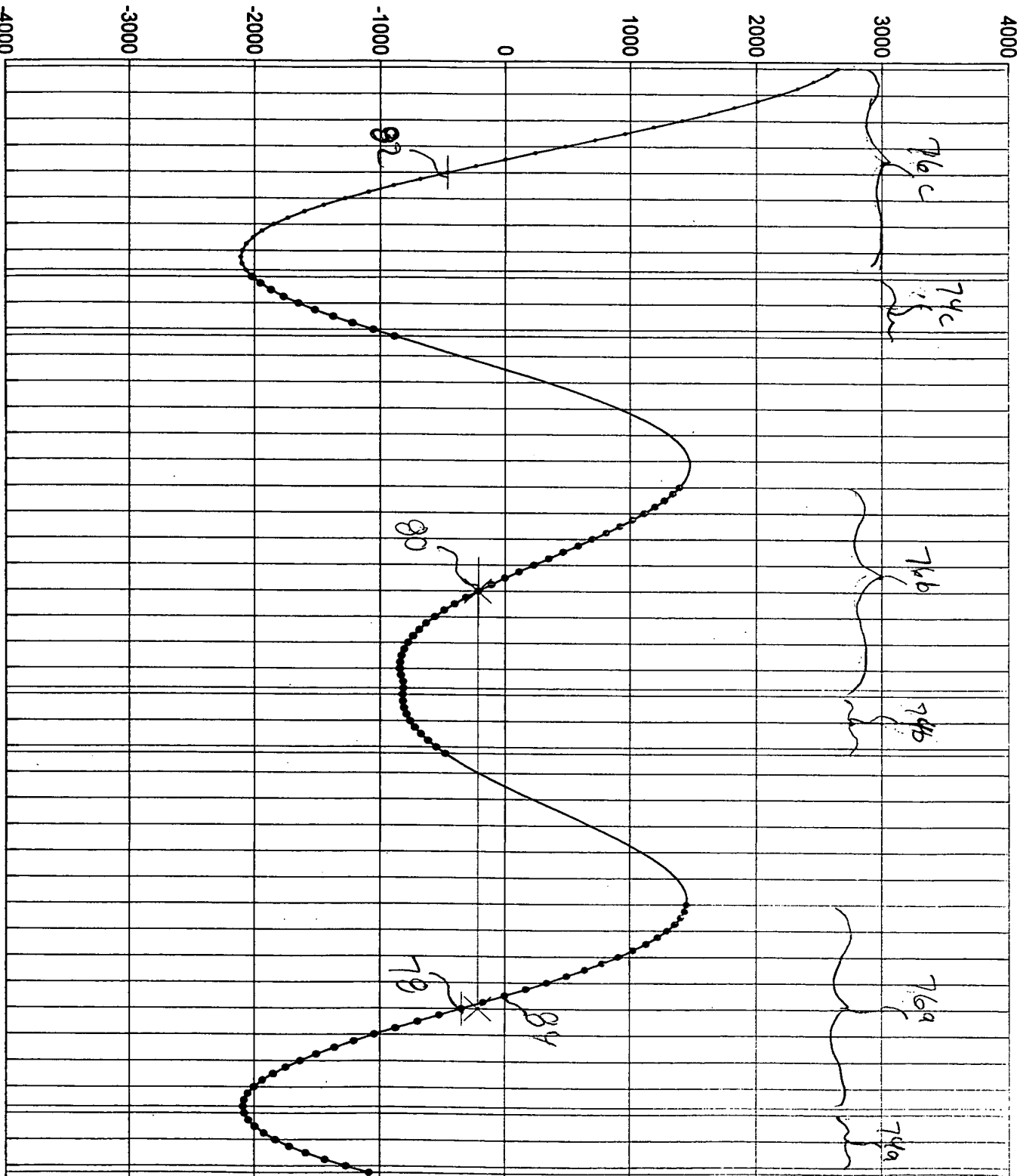
Points Processed = 171 P1CntSwitch = 17 CausalSwitchEnabled PastPoint = -714 PresentPoint = -464 FuturePoint = -214



169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
 DPM adjusted data = -465 DPMFactor = 2.1699 DPM Status = Normal DPM Num = 48288 DPM Den = 22254

Fig. 16

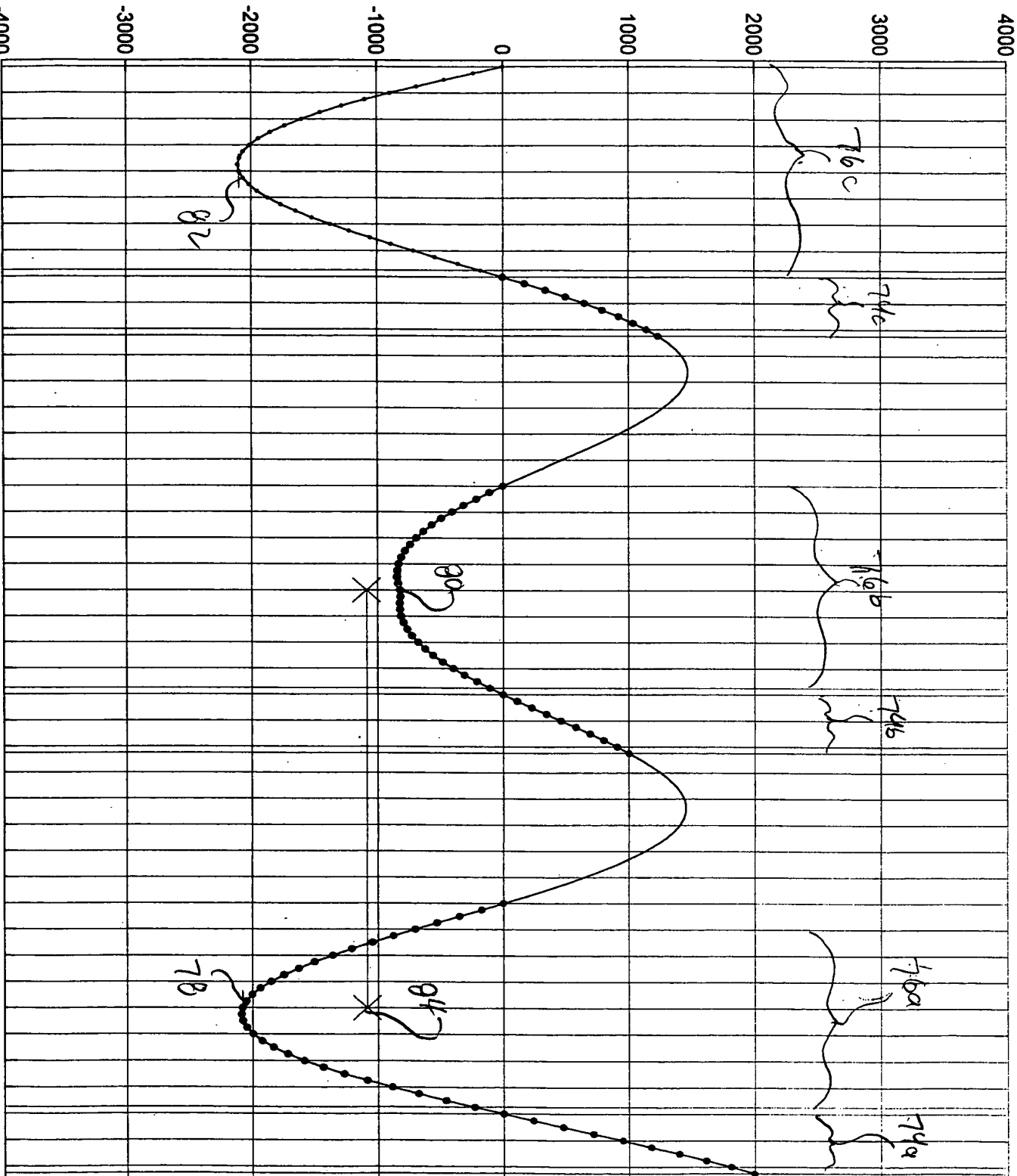
Points Processed = 235 PTCntSwitch = 15 CausalSwitchLockedOut PastPoint = -464 PresentPoint = -214 FuturePoint = -351



16916616215815450146142138134130126122118114110080298 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = -217 DPMFactor = 0.61591 DPM Status = Den (Future) frozen from c switch DPM Num = 22254 DPM Den = 36132

FIG. 17

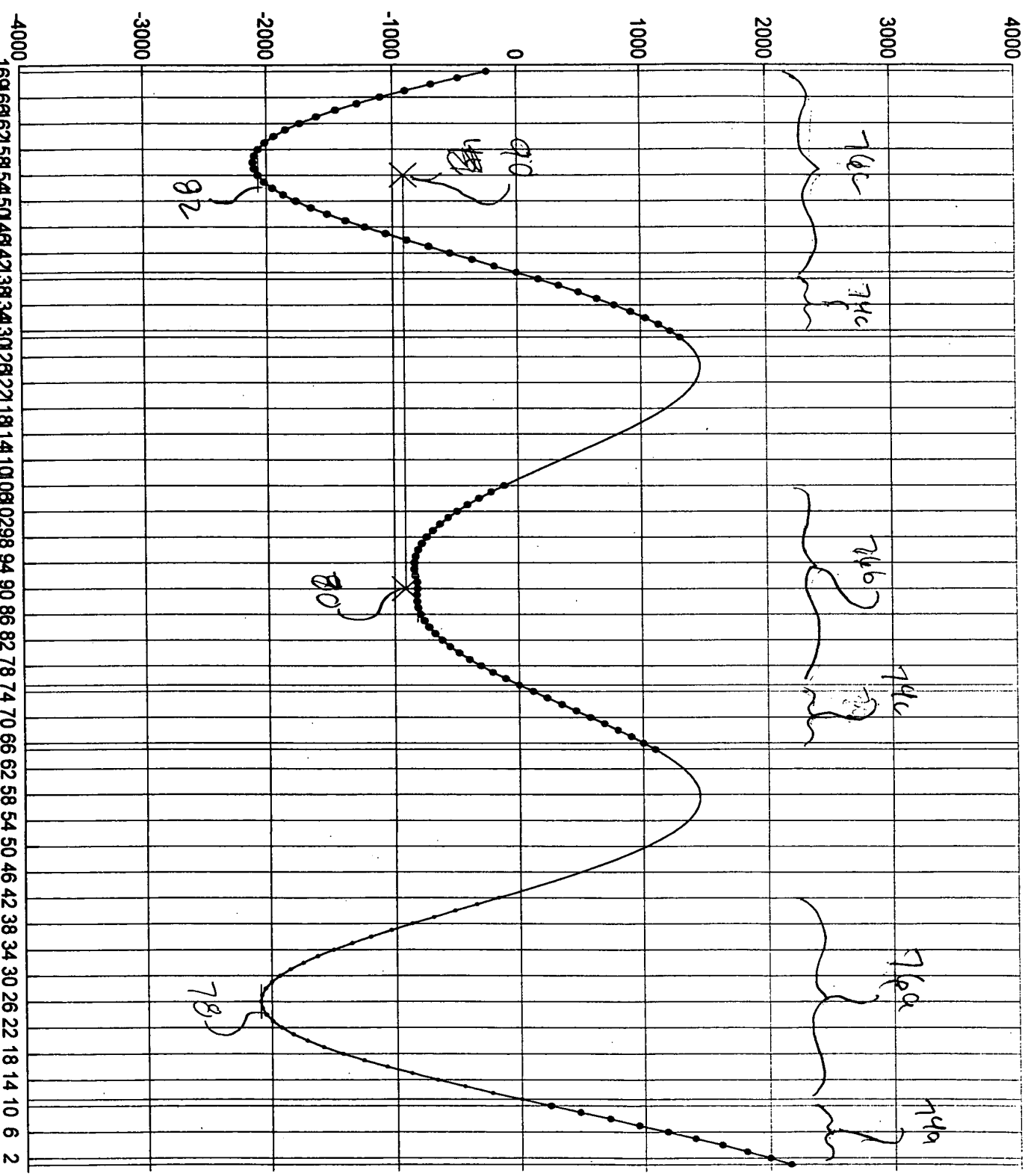
Points Processed = 249 PtCntSwitch = 1 CausaSwitchLockedOut PasrPoint = -2100 PresentPoint = -820 FuturePoint = -2080



DPM adjusted data = -1085 DPMFactor = 0.52142 DPM Status = Den (Future) frozen from c switch DPM Num = 18840 DPM Den = 36132

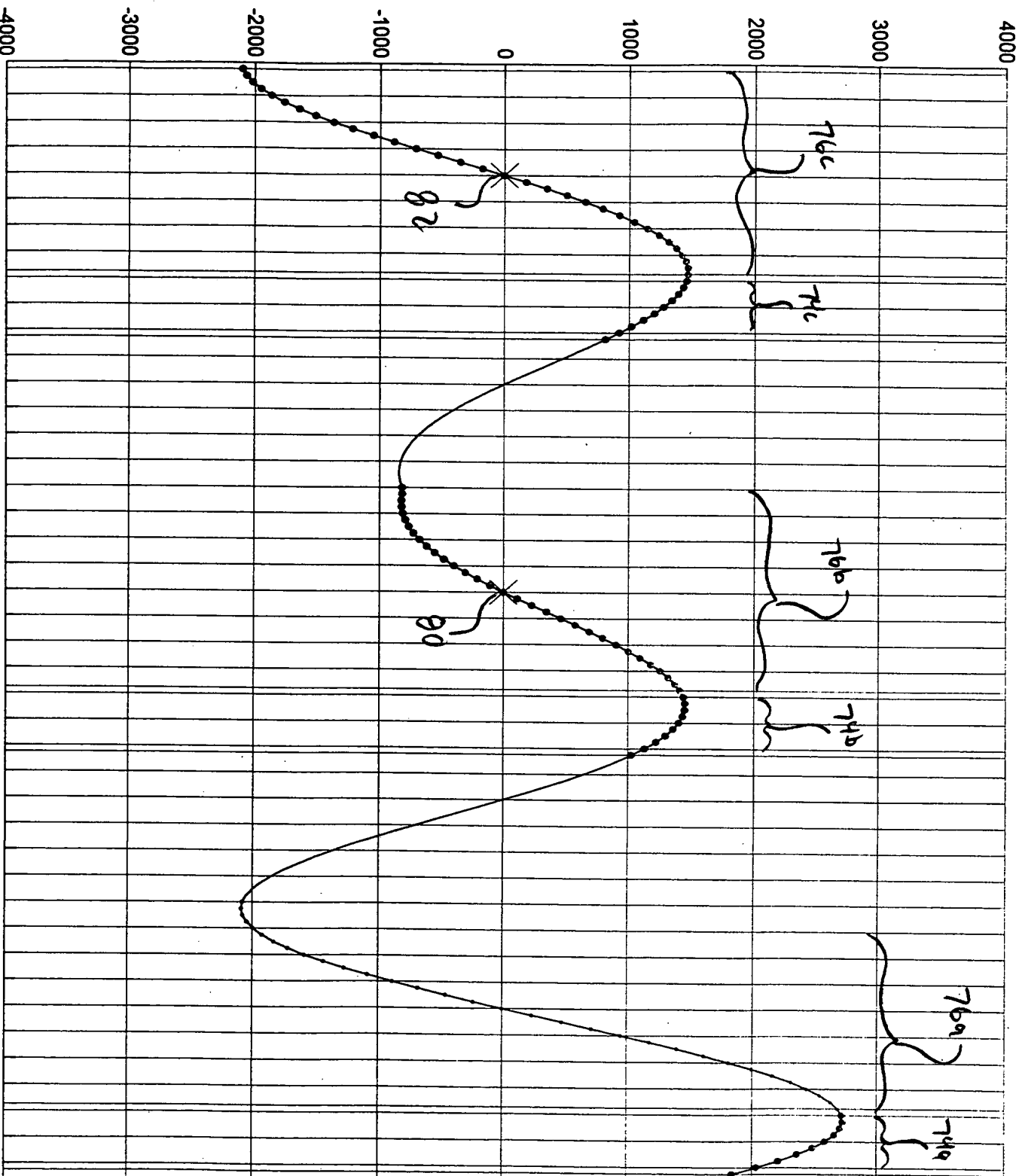
FIG. 18

Points Processed = 250 P/CntSwitch = 0 CausalSwitchLockedOut PastPoint = -2069 PresentPoint = -816 FuturePoint = -2089



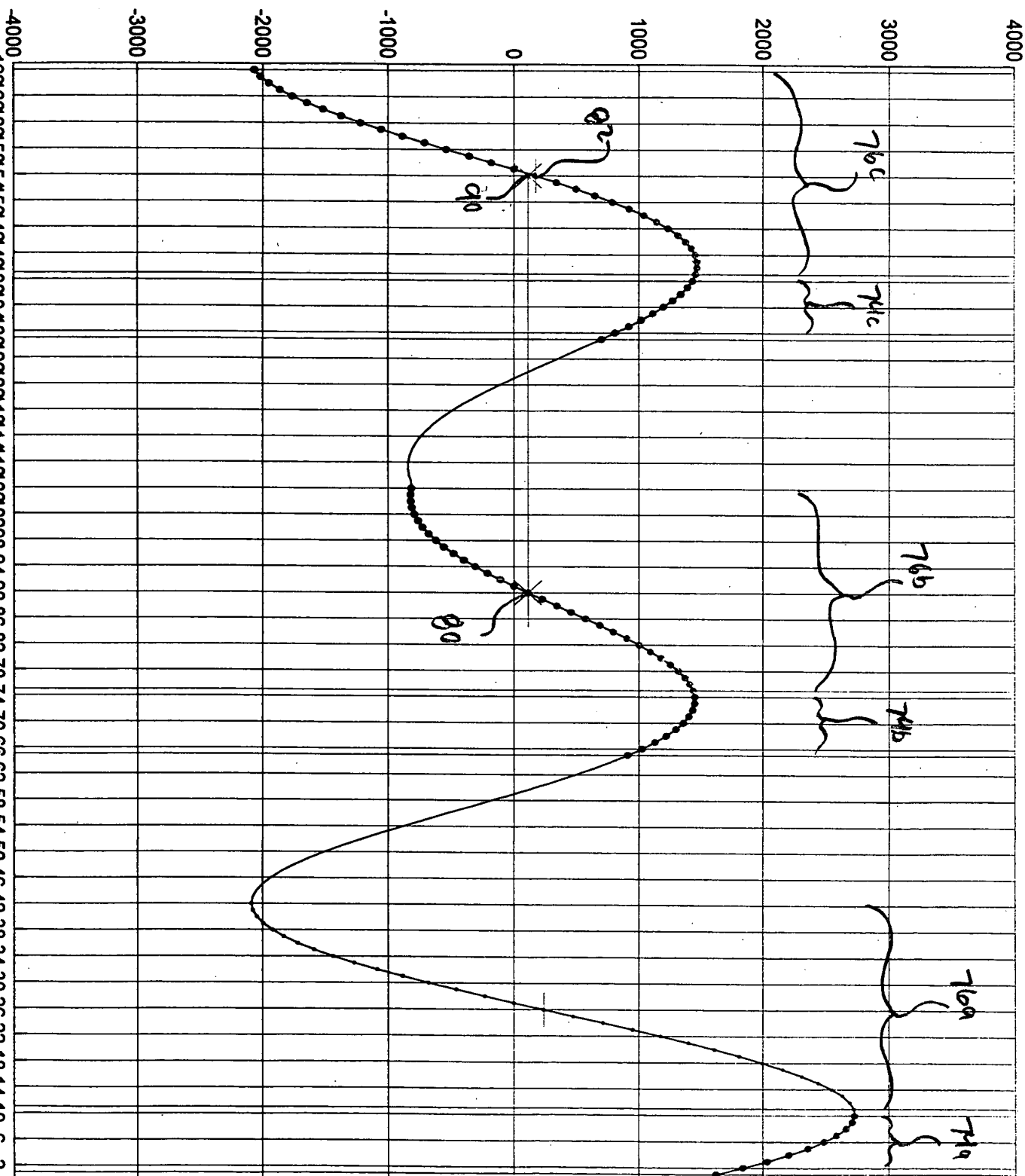
1696662158545046421381343028221814100802989490868278747066625854504642383430262218141062
 DPM adjusted data = -913 DPM Factor = 0.44088 DPM Status = Normal DPM Num = 18840 DPM Den = 42733

Points Processed = 265 PtCntSwitch = -15 CausalsSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 0



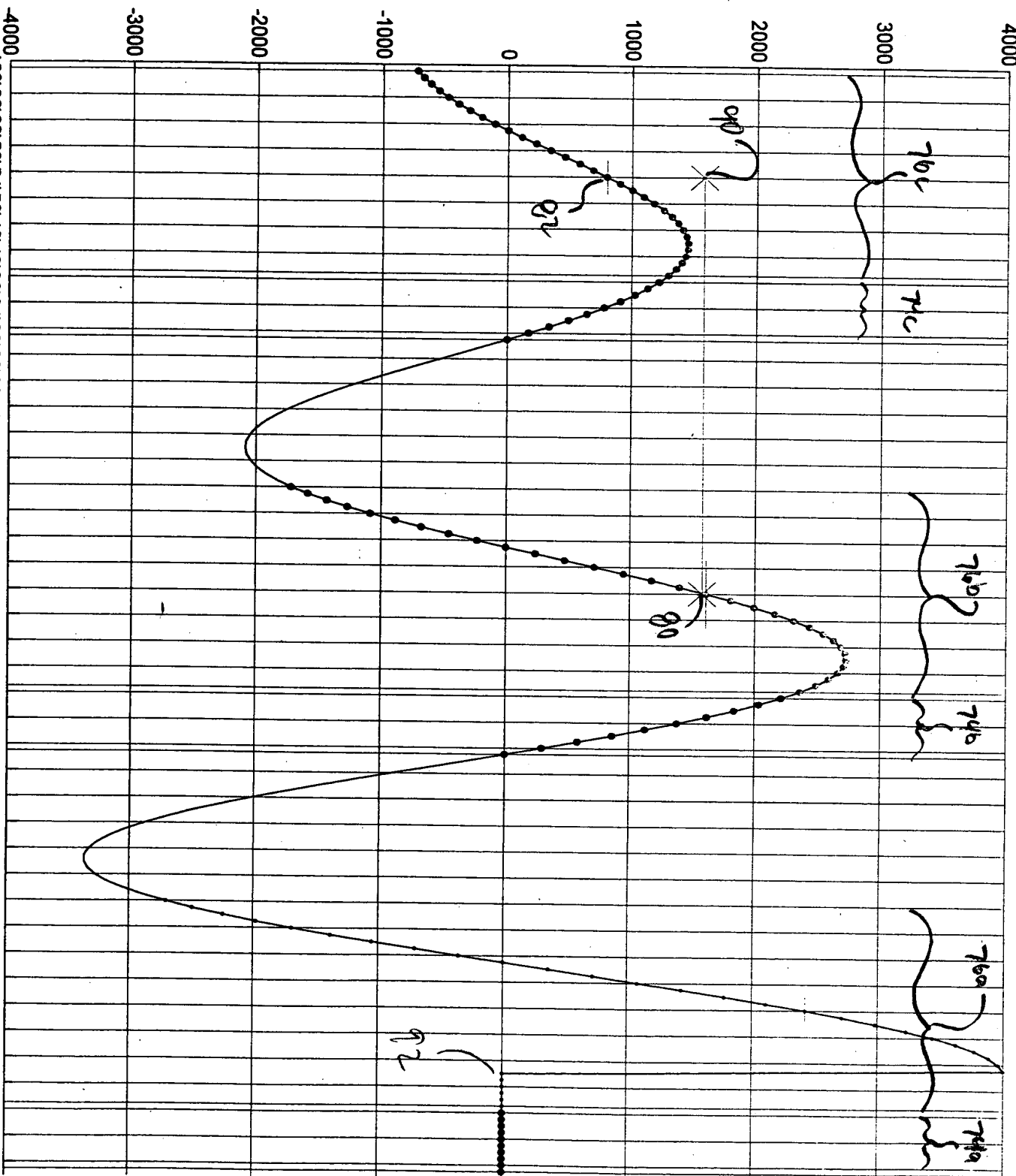
169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = -1 DPMFactor = 0.61528 DPM Status = Normal DPM Num = 22481 DPM Den = 36538

Fig. 20



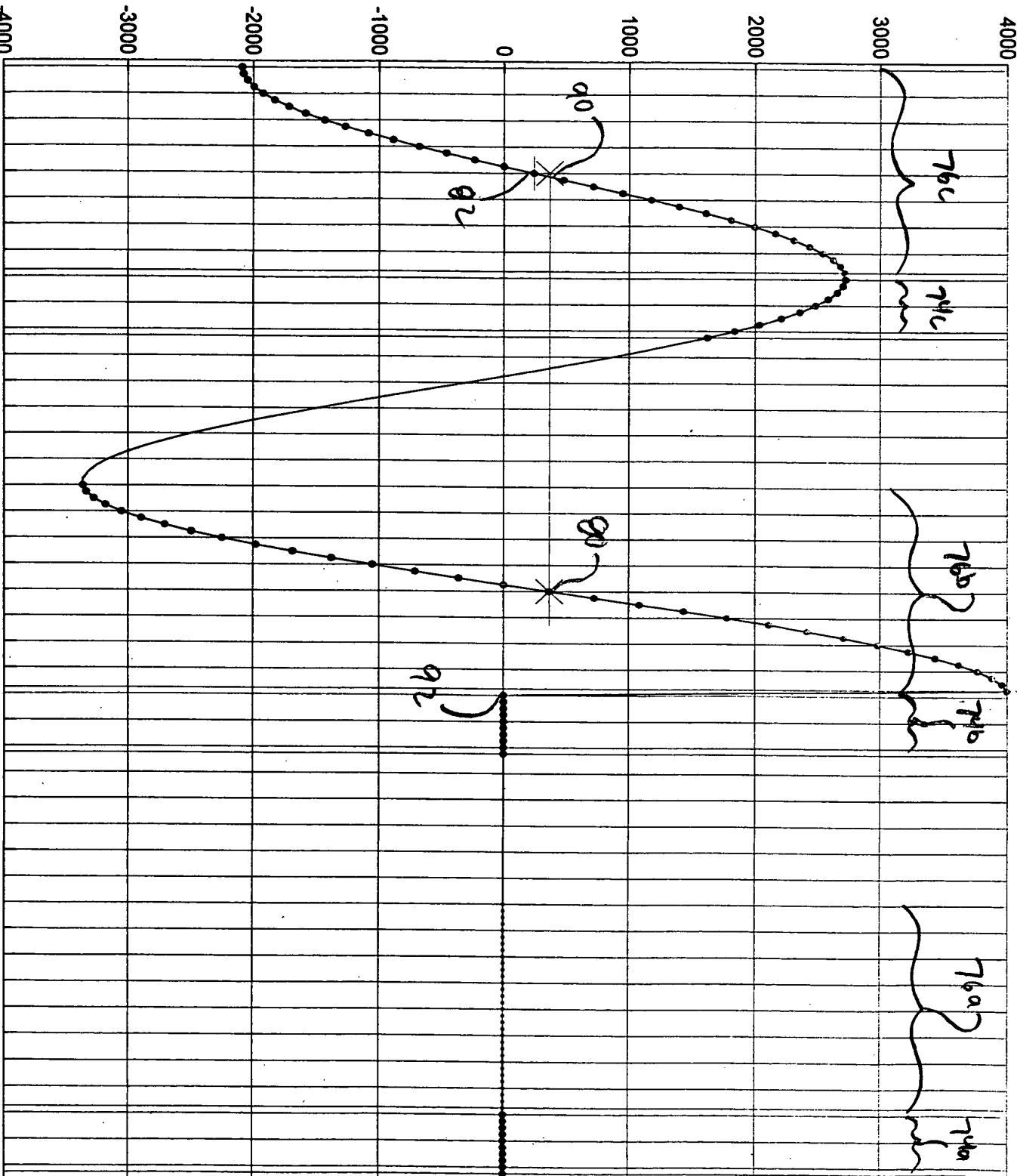
169 68 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2

DPM adjusted data = 111 DPMFactor = 0.64352 DPM Status = Normal DPM Num = 23101 DPM Den = 35898



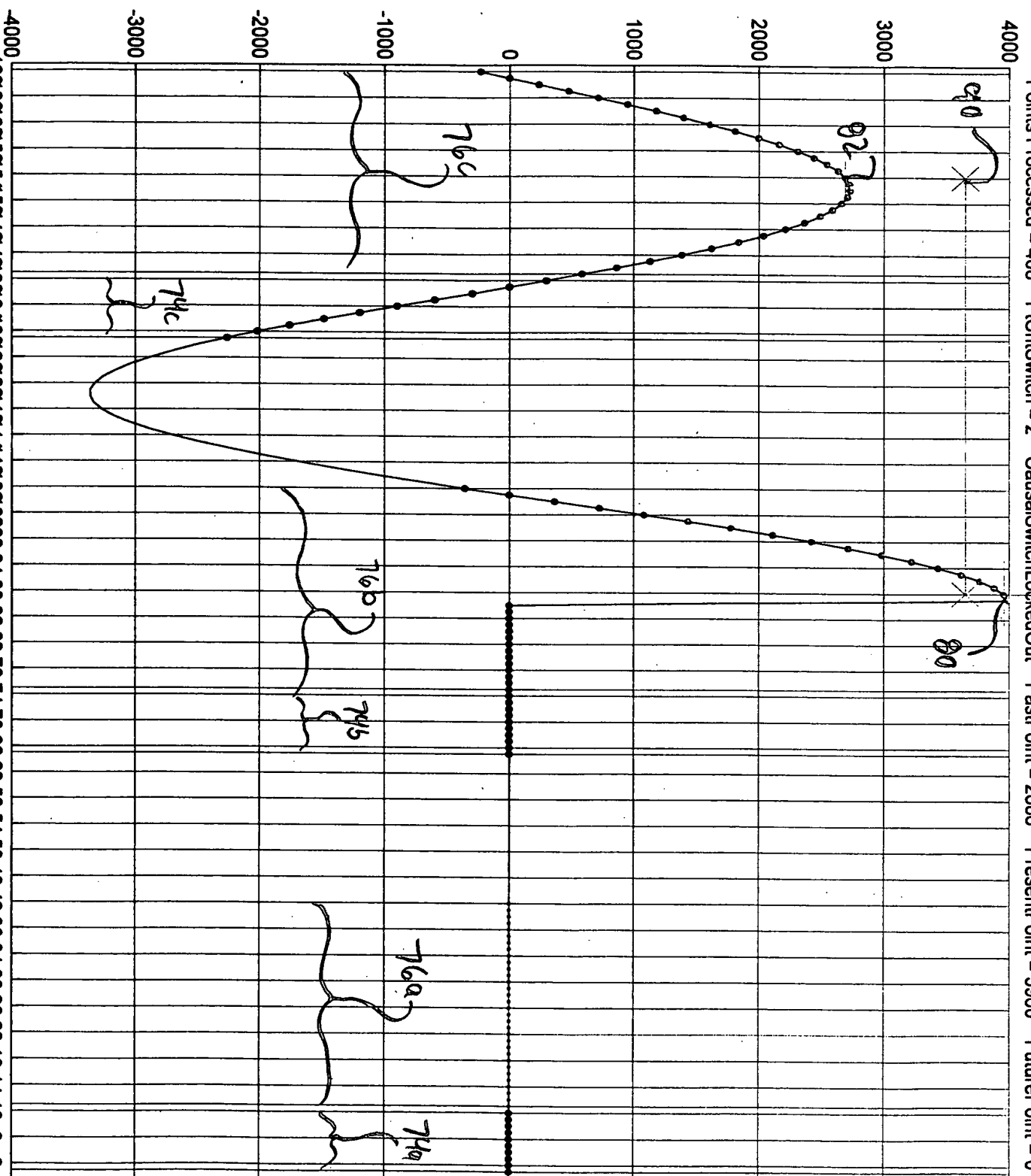
16966 62 58 54 50 46 42 38 34 30 26 22 18 14 10 06 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 1580 DPMFactor = 1.9772 DPM Status = Normal DPM Num = 52725 DPM Den = 26667

Points Processed = 394 PICntSwitch = 16 CausalsSwitchLockedOut PastPoint = 237 PresentPoint = 362 FuturePoint = 0



1696862 584504 461421 383430 261221 181410 080298 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 363 DPMFactor = 1.5299 DPM Status = Normal DPM Num = 75211 DPM Den = 49160

Points Processed = 408 PtCntSwitch = 2 CausalSwitchLockedOut PastPoint = 2686 PresentPoint = 3960 FuturePoint = 0

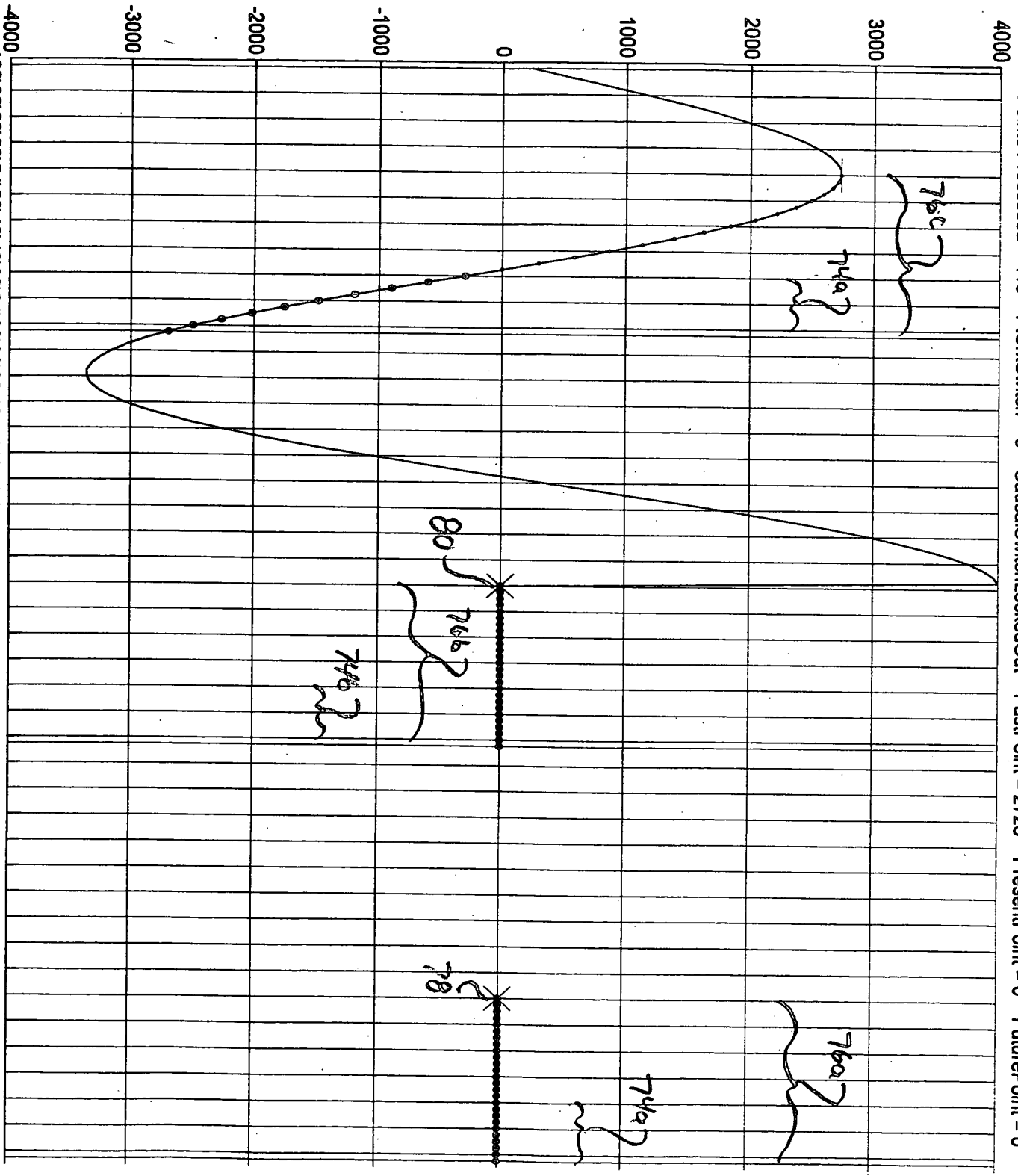


1696 62 58 54 50 46 42 38 34 30 26 22 18 14 10 08 02 98 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
 DPM adjusted data = 3654 DPMFactor = 1.3603 DPM Status = Num (Prsm) frozen from c switch DPM Num = 75211 DPM Den = 55291

F16. 24

70 →

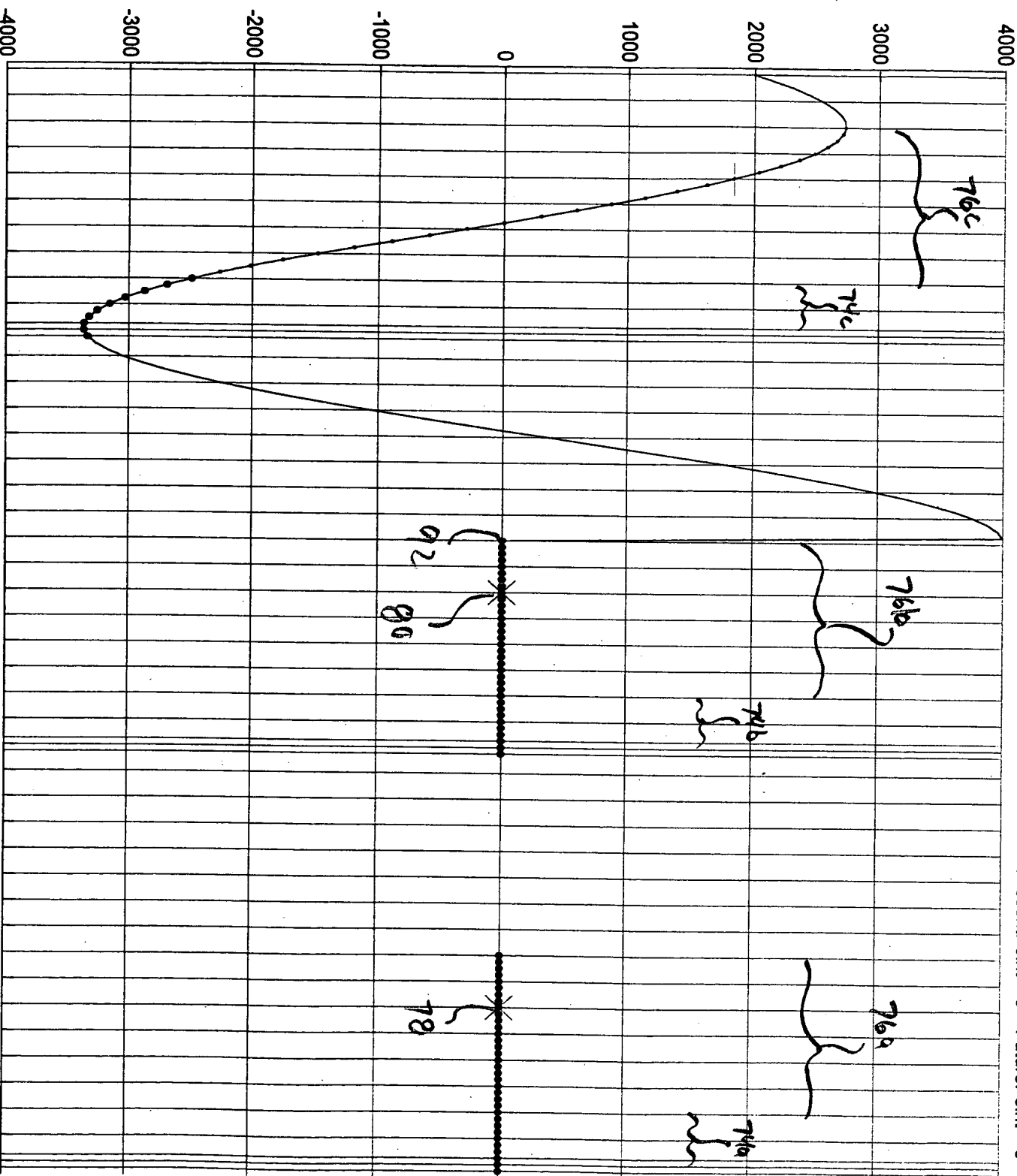
Points Processed = 410 PtCntSwitch = 0 CausalswitchLockedOut PastPoint = 2726 PresentPoint = 0 FuturePoint = 0



DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM span & center adjusting DPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

FIG. 25

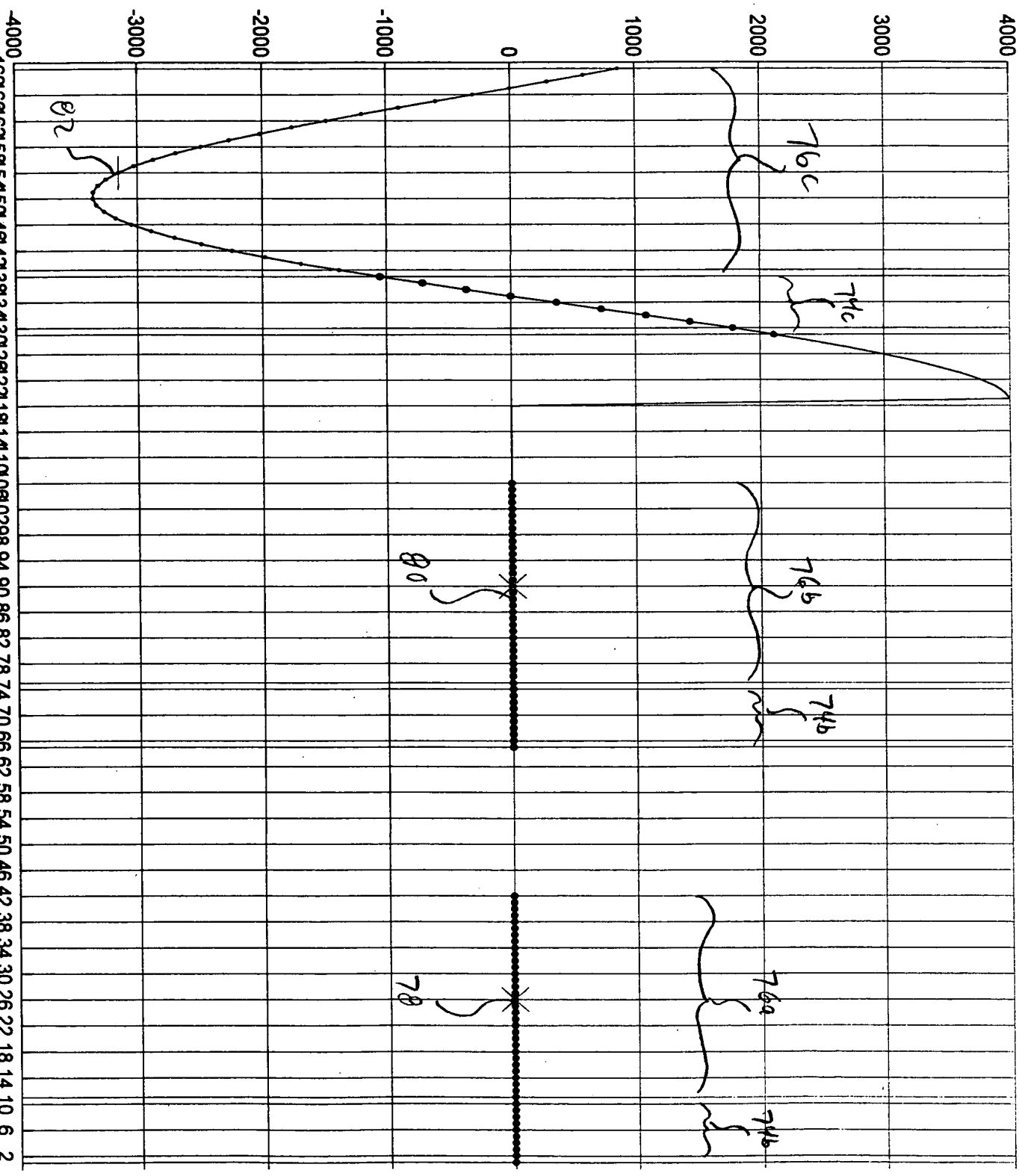
Points Processed = 418 P1CntSwitch = -8 CausalSwitchLockedOut PastPoint = 1839 PresentPoint = 0 FuturePoint = 0



DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM span & center adjusting DPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

F/G, 26

Points Processed = 438 PtCntSwitch = 17 CausalSwitchEnabled PastPoint = -3157 PresentPoint = 0 FuturePoint = 0



169 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 0 DPM Factor = 1 DPM Status = DPM Inht Low Amp DPM Num = 0 DPM Den = 0

F16. 27

Output with causal/non-causal switching, but DPM only in the Past

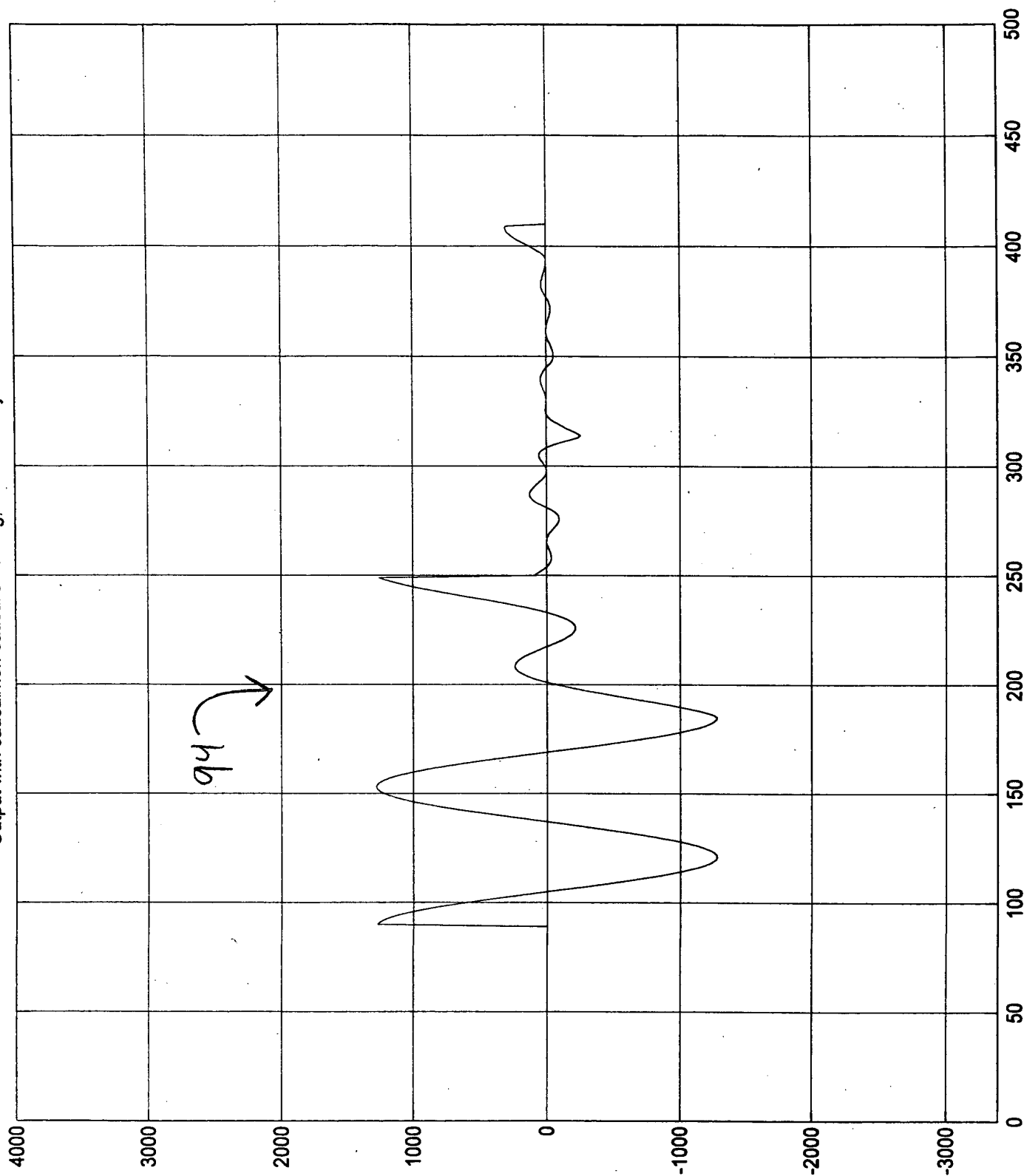


Fig. 28

Output from full NC Switching and DPM

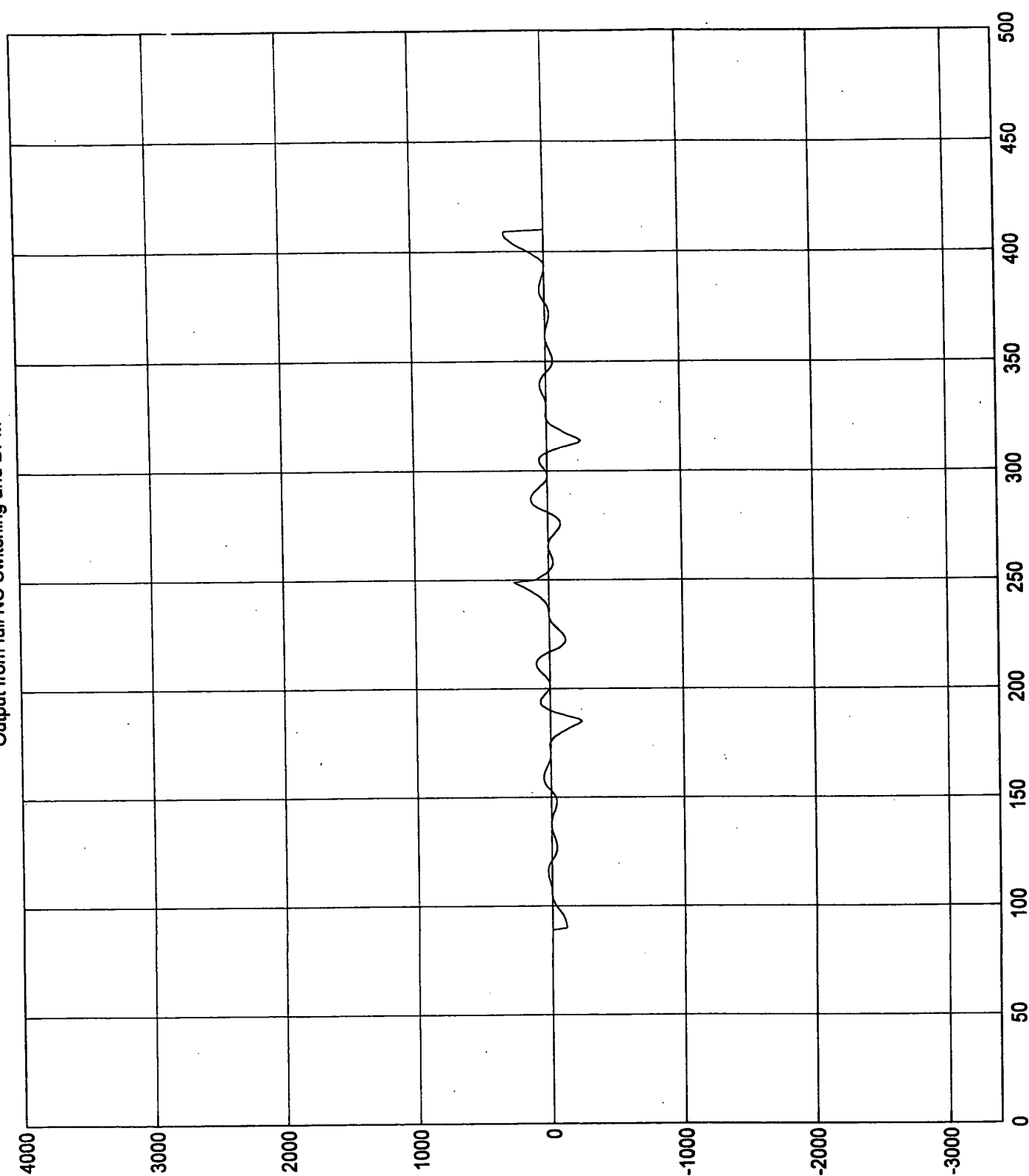


FIG. 29

